

IN THE CLAIMS

This listing of the claim will replace all prior versions and listings of claim in the present application.

Listing of Claims

Claim 1 (canceled).

2. (currently amended) A distributed object controlling method for a first computer for executing an object and having first and second reference-information storage areas, said first computer being connected to a second computer which has a naming service unit, comprising the steps of:

storing, when executing an object in said first computer, object reference-information for said object in both said second reference-information storage area of said first computer and said naming service unit of said second computer, and judging, when executing a retrieval request of another object, whether or not object reference information on said another object has been stored in said second reference-information storage area,

executing, when said object reference information on said another object has been stored in said second reference-information storage area, communication with said another object based on said object reference information of said another object;

judging, when said object reference information on said another object has not been stored in said second reference-information storage area, whether or not object reference information on said another object has been stored in said first reference-information storage area;

executing, when said object reference information on said another object has been stored in said first reference-information storage area,

communication with said another object based on said object reference information on said another object stored in said first reference-information storage area;

sending, when said object reference information on said another object has not been stored in said first reference-information storage area, a retrieval request to said second computer for providing a naming service, said retrieval request including said object name of said object;

storing object reference information and an object name of said object into said first reference-information storage area, said object reference information being acquired as the response to said retrieval request; and

executing communication with said another ~~object-object~~ based on said acquired object reference information-; and

deleting said object reference information of said object from both said second reference-information storage area of said first computer and said naming service unit of said second computer.

Claim 3 (canceled).

4. (currently amended) The distributed object controlling method according to Claim_2, further comprising a step of:

if failure information has been acquired as the response to said communication with said another object based on said acquired object reference information, deleting all of object names and object reference information stored in said first reference-information storage area.

5. (previously presented) The distributed object controlling method according to Claim 2, further comprising a step of:

if failure information has been acquired as the response to said communication with said another object based on said acquired object reference information, deleting all of object names and object reference information corresponding to said object name stored in said first reference-information storage area.

6. (previously presented) The distributed object controlling method according to Claim 2, further comprising a step of:

if failure information has been acquired as the response to said communication with said another object, said failure information including an object name that has caused a failure, deleting the object name and the object reference information corresponding to said object name and stored in said first reference-information storage area, said object name having caused said failure.

Claims 7 and 8 (canceled).

9. (previously presented) The distributed object controlling method according to Claim 2, further comprising the steps of:

when storing said acquired object reference information and said object name into said first reference-information storage area, storing said object name therein after a registration point-in-time has been brought into correspondence with said object name;

when a first predetermined time has elapsed, judging whether or not each registration point-in-time has elapsed by a second predetermined time, said each registration point-in-time being stored after having been brought into correspondence with said each object name stored in said first reference-information storage area, and

deleting, from within said first reference-information storage area, an object name and object reference information whose registration point-in-time has elapsed by said second predetermined time;

sending a retrieval request to said second computer for providing said naming service, said retrieval request including said object name; and

storing, into said first reference-information storage area, object reference information, said object name, and a registration point-in-time acquired as the response to said retrieval request.

Claims 10 and 11 (canceled).

12. (currently amended) A first computer for executing an object in connection with a second computer, said first computer being connected to a second computer which has a naming service unit, comprising:

a first and a second reference-information storage areas;

means for storing, when executing an object in both said first computer, object reference-information for said object in said second reference-information storage area of said first computer and said naming service unit of said second computer, and judging, when executing a retrieval request of

another object, whether or not object reference information on said another object has been stored in said second reference-information storage area;

means for executing, when said object reference information on said another object has been stored in said second reference-information storage area, communication with said another object based on said object reference information on said another object;

means for judging, when said object reference information on said another object has not been stored in said second reference-information storage area, whether or not object reference information on said another object has been stored in said first reference-information storage area;

means for executing, when said object reference information on said another object has been stored in said first reference-information storage area, communication with said another object based on said object reference information on said another object stored in said first reference-information storage area;

means for sending, when said object reference information on said another object has not been stored in said first reference-information storage area, a retrieval request to said second computer for providing said naming service, said retrieval request including said object name of said object;

means for storing object reference information and an object name of said object into said first reference-information storage area, said object reference information being acquired as the response to said retrieval request; and

means for executing communication with said another object based on said acquired object reference information-; and

means for deleting said object reference information of said object from both said second reference-information storage area of said first computer and said naming service unit of said second computer.

13. (previously presented) The first computer according to Claim 12, further comprising:

means for deleting, if failure information has been acquired as the response to said communication with said another object based on said acquired object reference information, all of object names and object reference information stored in said first reference-information storage area.

14. (previously presented) The first computer according to Claim 12, further comprising:

means for deleting, if failure information has been acquired as the response to said communication with said another object based on said acquired object reference information, all of object names and object reference information corresponding to said object name stored in said first reference-information storage area.